

**METALLIC HONEYCOMB AS CATALYST CARRIER WITH MICROSTRUCTURES FOR FLOW MIXING**

Patent Number: US5157010  
Publication date: 1992-10-20  
Inventor(s): MAUS WOLFGANG (DE); WIERES LUDWIG (DE)  
Applicant(s): EMITEC EMISSIONSTECHNIK (DE)  
Requested Patent: EP0454712 (WO9008249), B1  
Application Number: US19910731523 19910717  
Priority Number(s): DE19890000467U 19890117  
IPC Classification: B01J32/00; B01J35/04  
EC Classification: B01J35/04, F01N3/28B2B, F01N3/28B2B3  
Equivalents: BR9007034, DE8900467U, JP3505701T, JP6022683B, KR140873, RU2053017, WO9008249

**Abstract**

A metallic honeycomb body, such as a catalyst carrier body for the exhaust system of a motor vehicle, includes sheet metal layers at least partly having at least one macrostructure forming a plurality of channels for conveying a fluid in a given flow direction. The at least one macrostructure determines a shape of the honeycomb body, an average channel width and essential mechanical properties of the honeycomb body. At least a part of the sheet metal layers have at least partial regions with microstructures. The microstructures have a height being substantially from 0.01 to about 0.3 times the average channel width and being at least 15  $\mu$ m. The microstructures extend transversely or at an angle relative to the given flow direction and are spaced substantially from 1-10 mm apart from each other in the given flow direction.

Data supplied from the esp@cenet database - I2